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IN THE CLAIMS

Please amend the claims as follows.

SUB  
B1  
A2

Claim 1 (Amended).

A method of identifying a compound that modulates coactivator binding to a nuclear receptor, said method comprising:

modeling test compounds that fit [spacially] spatially into a nuclear receptor coactivator binding site of interest using an atomic structural model of a nuclear receptor coactivator binding site or portion thereof,

screening said test compounds in an assay characterized by binding of a test compound to a nuclear receptor coactivator binding site, and

identifying a test compound that modulates coactivator binding to said nuclear receptor.

A3

Claim 9 (Amended).

The method of any one of claims 5 through 8, wherein said nuclear receptor is selected from the group consisting of [TR, RAR, RXR, PPAR, VDR, ER, GR, PR, MR, AND AR] receptors for thyroid hormones, retinoids, peroxisomes, vitamin D, estrogens, glucocorticoids, progestins, mineralocorticoids, and androgens.

A4 SUB  
B4

Claim 16 (Amended).

The method of claim 15, wherein said test compound is a peptide comprising a [NR-box] nuclear receptor box motif (NR-box) amino acid sequence or derivative thereof.